

INTERNATIONAL SEARCH REPORT

International application No

PCT/US03/36874

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) C12N 9/22, C07H 21/04
 US CL 424/198 1, 536/24 1

According to International Patent Classification (IPO or to both national classification and EPC)

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U S 424/198 1, 536/24 1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 PUBMED, MEDLINE, BIOSIS, ELSEVIER BIOBASE, DERWENT BIOTECHNOLOGY ABSTRACTS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	FLOMERFELT et al Spatial, a gene expressed in thymic stromal cells, depends on three-dimensional thymus organization for its expression Genes Immun 2000, Vol 1, pages 391-401	1-66
A	PHAM et al Assessment of Thymic Activity in Human Immunodeficiency Virus-Negative and -Positive Adolescents by Real-Time PCR Quantitation of T-Cell Receptor Rearrangement Excision Circles CUn Diag Lab Immun March 2003, Vol 10, No 2, pages 3232-328	1-66
A	MCCUNE Thymic function in HIV-1 disease Immun 1997, Vol 9, pages 397-404	1-66
A	NAPOLITANO et al Effects of IL-7 on Early Human Thymocyte Progenitor Cells In Vitro and in SCID-hu Thy/Liv Mice J Immun 2003, Vol 171, pages 645-654	1-66

<input type="checkbox"/> Further documents are listed in the continuation of Box C		<input type="checkbox"/> See patent family annex	
<p>* Special categories of cited documents</p> <p>A document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>		<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>	
Date of the actual completion of the international search 16 May 2005 (16 05 2005)		Date of mailing of the international search report TBI 10V 2005	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner of Patents P O Box 1450 Alexandria, Virginia 22313-1450 Facsimile No (703) 305-3230		Authorized Signatory Timothy M Brown <i>T. M. Brown</i> Telephone No (571) 272-1600	